

ABSTRACT OF THE DISCLOSURE

Subc 27

5 A method for processing the discharge port of an ink jet head provided with discharge port for discharging ink and a discharge port plate having the discharge port, comprising the following steps of

10 closely contacting the mask plate having opening in the form of the discharge port with the face of the discharge port plate on the ink discharge side; and forming the discharge port on the discharge port plate

15 by irradiating plural high energy ultraviolet parallel beams simultaneously through the mask plate in the direction inclined at a specific angle to the vertical axis of the mask plate face. With the method thus arranged, the aperture diameters on the ink discharge

20 side can be made uniform, and the tapered configuration becoming thinner toward the ink discharge side can also be formed reliably, hence making it possible to stabilize the discharge direction of ink droplets, and enhance the flying speed of discharged ink for the performance of high quality printing with each clear dot having an extremely small amount of mist.